NC/PMC/PD/W-14/2017-18/OG-C1 Date: 12-01-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing ornamental grill and gates to play ground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**294 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.78 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.01 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**28.65 N/Sq mm** **39.79 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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NC/PMC/PD/W-14/2017-18/OG-PCC1 Date: 12-01-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Providing ornamental grill and gates to play ground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	98.35	85-100	95 – 100
20mm	43.10	0 -20	30- 70
10mm	16.80	0 -5	10- 35
4.75mm	2.45	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	96.75	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.10	60-95	75-100	85-100	
01.18	61.90	30-70	55-90	75-100	
600. mic	38.05	15-34	35-59	60-79	
300.mic	11.40	5-20	8-30	12-40	
150.mic	7.55	0-10	0-10	0-10	

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NC/PMC/PD/W-14/2017-18/OG-C2

Date: 19-01-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing ornamental grill and gates to play ground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**185 min**	Shall not be less than 30 min
2	Final setting time	**292 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.99 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**28.46 N/Sq mm** **39.19 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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NC/PMC/PD/W-14/2017-18/OG-FA1

Date: 19-01-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing ornamental grill and gates to play ground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.75**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.95**	60-95	75-100	85-100	
01.18	**59.10**	30-70	55-90	75-100	
600. mic	**38.45**	15.34	35-59	60-79	
300.mic	**22.65**	5-20	8-30	12-40	
150.mic	**7.20**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.85 %**	-----
2	Silt Content	----	**0.63 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

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Page No. 1/1,

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W-14/2017-18/OG-S1 **Date: 20-01-2018**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 & 12 mm **TMT Steel.**
{Project*: Providing ornamental grill and gates to play ground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.627**	0.567	**0.882**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**534.0**	500.0	**539.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.80**	12.00	**21.30**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**631.0**	545.0	**642.0**	545.0

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NC/PMC/PD/W-14/2017-18/OG-CB1A Date: 19-02-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing ornamental grill and gates to play ground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-01-18	19-02-18	28	22500	405	18.00	17.48
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	390	17.33	

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NC/PMC/PD/W-14/2017-18/OG-CB2

Date: 12-02-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing ornamental grill and gates to play ground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-02-18	12-02-18	07	22500	380	16.89	**16.52**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	370	16.44	

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NC/PMC/PD/W-14/2017-18/OG-CB2A

Date: 05-03-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
(Project*: Providing ornamental grill and gates to play ground outdoor stadium ward No-14.)
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-02-18	05-03-18	28	22500	500	22.22	22.74
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	515	22.89	

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